AMENDMENTS TO THE CLAIMS

Claims 1 to 23 (Canceled)

- 24. (Withdrawn) A phosphor of SiC excited by an external light source for emitting light, doped with N and at least one of B and Al.
 - 25. (Withdrawn) The phosphor of Sic according to claim 24, wherein

both of the doping concentration with at least one of B and Al and the doping concentration with N are 10^{15} /cm³ to 10^{20} /cm³.

26. (Withdrawn) The phosphor of SiC according to claim 25, wherein

both of the doping concentration with at least one of B and Al and the doping concentration with N are 10^{16} /cm³ to 10^{20} /cm³.

- 27. (Withdrawn) The phosphor of SiC according to claim 24, emitting fluorescence having a wavelength of 500 nm to 750 nm with a peak wavelength in the range of 500 nm to 650 nm.
 - 28. (Withdrawn) The phosphor of SiC according to claim 27, wherein

SiC is doped with N and B, the concentration of either N or B is 10^{15} /cm³ to 10^{18} /cm³, and the concentration of either B or N is 10^{16} /cm³ to 10^{19} /cm³.

- 29. (Withdrawn) The phosphor of SiC according to claim 24, emitting fluorescence having a wavelength of 400 nm to 750 nm with a peak wavelength in the range of 400 nm to 550 nm.
 - 30. (Withdrawn) The phosphor of SiC according to claim 29, wherein

SiC is doped with N and Al, the concentration of either N or Al is 10^{15} /cm³ to 10^{18} /cm³, and the concentration of either Al or N is 10^{16} /cm³ to 10^{19} /cm³.

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31. (Withdrawn) A method of manufacturing a phosphor of SiC excited by an external light source for emitting fluorescence having a wavelength of 500 nm to 750 nm with a peak wavelength in the range of 500 nm to 650 nm and doped with N and B so that the concentration of either N or B is 10¹⁵/cm³ to 10¹⁸/cm³ and the concentration of either B or N is 10¹⁶/cm³ to 10¹⁹/cm³.

by forming an SiC crystal by sublimation recrystallization with a B source of LaB₆, B₄C, TaB₂, NbB₂, ZrB₂, HfB₂, BN or carbon containing B.

- 32. (Withdrawn) The method of manufacturing a phosphor of SiC according to claim 31, performing thermal annealing at a temperature of at least 1300°C for at least one hour after sublimation recrystallization or thermal diffusion.
- 33. (Withdrawn) A method of manufacturing a phosphor of SiC excited by an external light source for emitting fluorescence having a wavelength of 500 nm to 750 nm with a peak wavelength in the range of 500 nm to 650 nm and doped with N and B so that the concentration of either N or B is 10¹⁵/cm³ to 10¹⁸/cm³ and the concentration of either B or N is 10¹⁶/cm³ to 10¹⁹/cm³,

by thermally diffusing a B source of simple B, LaB₆, B₄C, TaB₂, NbB₂, ZrB₂, HfB₂ or BN into SiC under a vacuum or an inert gas atmosphere at a temperature of at least 1500°C.

- 34. (Withdrawn) The method of manufacturing a phosphor of SiC according to claim 33, performing thermal annealing at a temperature of at least 1300°C for at least one hour after sublimation recrystallization or thermal diffusion.
- 35. (Withdrawn) The method of manufacturing a phosphor of SiC according to claim 33, removing a surface layer after thermal diffusion.
- 36. (Withdrawn) A substrate for a semiconductor consisting of a 6H-SiC singlecrystalline phosphor excited by an external light source for emitting light and doped with N and at least one of B and Al.

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37. (Withdrawn) The substrate for a semiconductor according to claim 36, consisting of a

6H-SiC single-crystalline phosphor doped with N and B for emitting fluorescence having a

wavelength of 500 nm to 750 nm with a peak wavelength in the range of 500 nm to 650 nm.

38. (Withdrawn) The substrate for a semiconductor according to claim 36, consisting of a

6H-SiC single-crystalline phosphor doped with N and Al for emitting fluorescence having a

wavelength of 400 nm to 750 nm with a peak wavelength in the range of 400 nm to 550 nm.

39. (Withdrawn) A method of manufacturing a substrate for a semiconductor consisting

of a 6H-SiC single-crystalline phosphor excited by an external light source for emitting

fluorescence having a wavelength of 500 nm to 750 nm with a peak wavelength in the range of

500 nm to 650 nm and doped with N and B so that the concentration of either N or B is 10¹⁵/cm³

to 10¹⁸/cm³ and the concentration of either B or N is 10¹⁶/cm³ to 10¹⁹/cm³, comprising the steps

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thermally diffusing a B source of simple B, LaB₆, B₄C, TaB₂, NbB₂, ZrB₂, HfB₂ or BN into SiC under a vacuum or an inert gas atmosphere at a temperature of at least 1500°C; and

removing a surface layer.

40. (Withdrawn) The method of manufacturing a substrate for a semiconductor according

to claim 39, performing thermal annealing at a temperature of at least 1300°C after sublimation

recrystallization or thermal diffusion.

41. (Withdrawn) A method of manufacturing a substrate for a semiconductor consisting

of a 6H-SiC single-crystalline phosphor excited by an external light source for emitting

fluorescence having a wavelength of 500 nm to 750 nm with a peak wavelength in the range of

500 nm to 650 nm and doped with N and B so that the concentration of either N or B is $10^{15} \mbox{cm}^3$

to 10^{18} /cm³ and the concentration of either B or N is 10^{16} /cm³ to 10^{19} /cm³, wherein

atmosphere gas in crystal growth contains N_2 gas of 1 % to 30 % in gas partial pressure,

and raw material SiC contains 0.05 mol % to 15 mol % of a B source, and an SiC crystal is

formed by sublimation recrystallization.

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42. (Withdrawn) The method of manufacturing a substrate for a semiconductor according to claim 41, performing thermal annealing at a temperature of at least 1300°C after sublimation recrystallization or thermal diffusion.

43. (Withdrawn) Powder for a semiconductor consisting of a 6H-SiC single-crystalline phosphor excited by an external light source for emitting fluorescence having a wavelength of 500 nm to 750 nm with a peak wavelength in the range of 500 nm to 650 nm, having a particle diameter of 2 µm to 10 µm and a central particle diameter of 3 µm to 6 µm.

44 - 47. (Canceled)

- 48. (Previously Presented) A light-emitting apparatus having one or at least two layers consisting of a 6H-SiC single-crystalline phosphor doped with N and at least one of B and Al on a substrate of SiC for a semiconductor and comprising a light-emitting device of a nitride semiconductor on said 6H-SiC single-crystalline phosphor layer(s).
- 49. (Previously Presented) The light-emitting apparatus according to claim 48, wherein the emission wavelength of said light-emitting device of a nitride semiconductor is not more than 408 nm.
- 50. (Previously Presented) The light-emitting apparatus according to claim 48, wherein both of the doping concentration with at least one of B and Al and the doping concentration with N in said 6H-SiC single-crystalline phosphor are 10¹⁶/cm³ to 10¹⁹/cm³.
- 51. (Previously Presented) The light-emitting apparatus according to claim 50, wherein both of the doping concentration with at least one of B and Al and the doping concentration with N in said 6H-SiC single-crystalline phosphor are 10¹⁷/cm³ to 10¹⁹/cm³.

52. (New) A light-emitting apparatus according to claim 48, wherein

the said 6H-SiC single-crystalline phosphor having a wavelength of 500 nm to 750 nm with a peak wavelength in the range of 500 nm to 650 nm.

53. (New) A light-emitting apparatus having a first SiC layer doped with A1 and N on a substrate of SiC and a second SiC layer doped with B and N of the first SiC layer for a semiconductor and comprising a light-emitting device of a nitride semiconductor on said 6H-SiC single-crystalline phosphor layer(s).

54. (New) The light-emitting apparatus according to claim 53, wherein

the emission wavelength of said light-emitting device of a nitride semiconductor is not more than 408 nm.

55. (New) The light-emitting apparatus according to claim 53, wherein

both of the doping concentration with at least one of B and A1 and the doping concentration with N in said 6H-SiC single-crystalline phosphor are 10¹⁶/cm³ to 10¹⁹/cm³.

56. (New) The light-emitting apparatus according to claim 53, wherein

both of the doping concentration with at least one of B and A1 and the doping concentration with N in said 6H-SiC single-crystalline phosphor are 10¹⁷/cm³ to 10¹⁹/cm³.

57. (New) The light-emitting apparatus according to claim 53, wherein

the said 6H-SiC single-crystalline phosphor having a wavelength of 500 nm to 750 nm with a peak wavelength in the range of 500 nm to 650 nm.

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